



sequence.txt
SEQUENCE LISTING

<110> Houghton, Alan
Bergman, Phillip
Wolchok, Jedd

<120> Compositions for treatment of Melanoma and Methods of Using Same

<130> MSK.P-026-3

<140> US 09/996,128

<141> 2001-11-27

<150> US 09/627,694

<151> 2000-07-28

<150> US 09/308,697

<151> 1999-05-21

<150> PCT/US97/22669

<151> 1997-12-10

<150> US 60/036,419

<151> 1997-02-18

<150> US 60/032,535

<151> 1996-12-10

<150> US 60/180,651

<151> 2000-01-26

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<170> PatentIn version 3.0

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gccttccttg accctggaag gtgccactcc cactgtcctt tctaataaaa atgaggaaat 180

sequence.txt

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| caagggggag | gattgggaag | acaatagcag | gcatggtggg | gatgcagggg | ggggggggcg | 300 |
| ctgaggtctg | cctcgtgaag | aaggtgttgc | tgactcatac | caggcctgaa | tcgccccatc | 360 |
| atccagccag | aaagtgaggg | agccacggtt | gatgagagct | ttgttgtagg | tggaccagtt | 420 |
| ggtgattttg | aacttttgct | ttgccacgga | acggtctgcg | ttgtcgggaa | gatgcgtgat | 480 |
| ctgatccttc | aactcagcaa | aagttcgatt | tattcaacaa | agccgccgtc | ccgtcaagtc | 540 |
| agcgtaatgc | tctgccagt | ttacaaccaa | ttaaccaatt | ctgattagaa | aaactcatcg | 600 |
| agcatcaa | gaaactgcaa | tttattcata | tcaggattat | caataccata | tttttgaaaa | 660 |
| agccgtttct | gtaatgaagg | agaaaactca | ccgaggcagt | tccataggat | ggcaagatcc | 720 |
| tggtatcgg | ctgcgattcc | gactcgtcca | acatcaatac | aacctattaa | tttcccctcg | 780 |
| tcaaaaataa | ggttatcaag | tgagaaatca | ccatgagtga | cgactgaatc | cggtgagaat | 840 |
| ggcaaaagct | tatgcatttc | tttccagact | tgttcaacag | gccagccatt | acgctcgtca | 900 |
| tcaaaatcac | tcgcatcaac | caaaccgtta | ttcattcgtg | attgcgcctg | agcgagacga | 960 |
| aatacgcgat | cgctgttaaa | aggacaatta | caaacaggaa | tcgaatgcaa | ccggcgcagg | 1020 |
| aactctgcca | gcgcatcaac | aatattttca | cctgaatcag | gatattcttc | taatacctgg | 1080 |
| aatgctgttt | tcccggggat | cgcagtggtg | agtaaccatg | catcatcagg | agtacggata | 1140 |
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| tctgtaacat | cattggcaac | gctacctttg | ccatgtttca | gaaacaactc | tggcgcacgc | 1260 |
| ggcttcccat | acaatcgata | gattgtcgca | cctgattgcc | cgacattatc | gcgagcccat | 1320 |
| ttatacccat | ataaatcagc | atccatgttg | gaatttaatc | gcggcctcga | gcaagacggt | 1380 |
| tcccgttgaa | tatggctcat | aacacccctt | gtattactgt | ttatgtaagc | agacagtttt | 1440 |
| attgttcatg | atgatata | tttatcttgt | gcaatgtaac | atcagagatt | ttgagacaca | 1500 |
| acgtggcttt | cccccccccc | cctgcagcgt | ttcttccttt | tccccacccc | accccccaag | 1560 |
| ttcgggtgaa | ggcccagggc | tcgcagccaa | cgtcggggcg | gcaggccctg | ccatagcctc | 1620 |
| aggttactca | tatatacttt | agattgattt | aaaacttcat | ttttaattta | aaaggatcta | 1680 |
| ggtgaagatc | ctttttgata | atctcatgac | caaaatccct | taacgtgagt | tttcgttcca | 1740 |
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sequence.txt

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| tcaagagcta | ccaactcttt | ttccgaaggt | aactggcttc | agcagagcgc | agataccaaa | 1920 |
| tactgttctt | ctagtgtagc | cgtagttagg | ccaccacttc | aagaactctg | tagcaccgcc | 1980 |
| tacatacctc | gctctgctaa | tcctgttacc | agtggctgct | gccagtggcg | ataagtcgtg | 2040 |
| tcttaccggg | ttggactcaa | gacgatagtt | accggataag | gcgcagcggg | cgggctgaac | 2100 |
| gggggggttcg | tgcacacagc | ccagcttggg | gcgaacgacc | tacaccgaac | tgagatacct | 2160 |
| acagcgtgag | ctatgagaaa | gcgccacgct | tcccgaaggg | agaaaggcgg | acaggtatcc | 2220 |
| ggtaagcggc | agggctcgaa | caggagagcg | cacgagggag | cttccagggg | gaaacgcctg | 2280 |
| gtatctttat | agtcctgtcg | ggtttcgcca | cctctgactt | gagcgtcgat | ttttgtgatg | 2340 |
| ctcgtcaggg | gggcggagcc | tatggaaaaa | cgccagcaac | gcggcctttt | tacggttcct | 2400 |
| ggccttttgc | tggccttttg | ctcacatggt | ctttcctgcg | ttatcccttg | attctgtgga | 2460 |
| taaccgtatt | accgccatgc | attagttatt | aatagtaatc | aattacgggg | tcattagtgc | 2520 |
| atagcccata | tatggagtgc | cgcgttacat | aacttacggg | aaatggcccc | cctggctgac | 2580 |
| cgcccaacga | ccccgcccc | ttgacgtcaa | taatgacgag | atctgatata | ggtgacagac | 2640 |
| gatatgaggc | tatatcgccg | atagaggcga | catcaagctg | gcacatggcc | aatgcatatc | 2700 |
| gatctataca | ttgaatcaat | attggcaatt | agccatatta | gtcattgggt | atatagcata | 2760 |
| aatcaatatt | ggctattggc | cattgcatac | gttgatatcta | tatcataata | tgtacattta | 2820 |
| tattggctca | tgtccaatat | gaccgccatg | ttgacattga | ttattgacta | gttattaata | 2880 |
| gtaatcaatt | acgggggtcat | tagttcatag | cccatatatg | gagttccgcg | ttacataact | 2940 |
| tacggtaaatt | ggcccgccctg | gctgaccgcc | caacgacccc | cgccattga | cgtcaatgat | 3000 |
| gacgtatggt | cccatagtaa | cgccaatagg | gactttccat | tgacgtcaat | gggtggagta | 3060 |
| tttacggtaa | actgcccact | tggcagtaca | tcaagtgtat | catatgccaa | gtccgcccc | 3120 |
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| ggactttcct | acttggcagt | acatctacgt | attagtcatc | gctattacca | tggtgatgcg | 3240 |
| gttttggcag | tacaccaatg | ggcgtggata | gcggtttgac | tcacggggat | ttccaagtct | 3300 |
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sequence.txt

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| ttttgacctc catagaagac accgggaccg atccagcctc cgcggccggg aacggtgcat | 3540 |
| tggaacgcgg attccccgtg ccaagagtga cgtaagtacc gcctatagac tctataggca | 3600 |
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| ttccttatgc tatagggtgat ggtatagctt agcctatagg tgtgggttat tgaccattat | 3720 |
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| cacaactatc tctattgggt atatgccaat actctgtcct tcagagactg acacggactc | 3840 |
| tgtattttta caggatgggg tccatttat tatttacaaa ttcacatata caacaacgcc | 3900 |
| gtcccccggt cccgcagttt ttattaaaca tagcgtggga tctccacgcg aatctcgggt | 3960 |
| acgtgttccg gacatgggct cttctccggt agcggcggag cttccacatc cgagccctgg | 4020 |
| tcccatgcct ccagcggctc atggtcgctc ggcagctcct tgctcctaac agtggaggcc | 4080 |
| agacttaggc acagcacaat gccaccacc accagtgtgc cgcacaaggc cgtggcggta | 4140 |
| gggtatgtgt ctgaaaatga gctcggagat tgggctcgca ccgctgacgc agatggaaga | 4200 |
| cttaaggcag cggcagaaga agatgcaggc agctgagttg ttgtattctg ataagagtca | 4260 |
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| tccgctggcc atttccctag agcctgtgtc tcctctaaga acctgatgga gaaggaatgc | 4620 |
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| atgggattca actgtggaac ctgcaagttt ggcttttggg gaccaaactg cacagagaga | 4860 |
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sequence.txt

| | |
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| agagacattg attttgccca tgaagcacca gcttttctgc cttggcatag actcttcttg | 5160 |
| ttgcggtggg aacaagaaat ccagaagctg acaggagatg aaaacttcac tattccatat | 5220 |
| tgggactggc gggatgcaga aaagtgtgac atttgcacag atgagtacat gggaggtcag | 5280 |
| caccccacaa atcctaactt actcagccca gcatcattct tctcctcttg gcagattgtc | 5340 |
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| cctttacggc gtaatcctgg aaaccatgac aaatccagaa cccaaggct ccctcttca | 5460 |
| gctgatgtag aattttgcct gagtttgacc caatatgaat ctggttccat ggataaagct | 5520 |
| gccaatcca gctttagaaa tacactggaa ggatttgcta gtccacttac tgggatagcg | 5580 |
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| caggtacagg gatctgcaa cgatcctatc ttccttcttc accatgcatt tgttgacagt | 5700 |
| atttttgagc agtggctccg aaggcaccgt cctcttcaag aagtttatcc agaagccaat | 5760 |
| gcaccattg gacataaccg ggaatcctac atggttcctt ttataccact gtacagaaat | 5820 |
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| atatctgctg gtatttttct gtaaagacca ttgcaaaat tgtaacctaa taaaagtgt | 6240 |
| agccttcttc caactcaggt agaacacacc tgtctttgtc ttgctgtttt cactcagccc | 6300 |
| ttttaacatt ttcccctaag cccatatgtc taaggaaagg atgctatttg gtaatgagga | 6360 |
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sequence.txt

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| attgttcatg atgatatatt tttatcttgt gcaatgtaac atcagagatt ttgagacaca | 1500 |
| acgtggcttt ccccccccc cctgcagcgt ttcttccttt tccccacccc acccccgaag | 1560 |
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| aggttactca tatatacttt agattgattt aaaacttcat ttttaattta aaaggatcta | 1680 |
| ggtgaagatc ctttttgata atctcatgac caaaatccct taacgtgagt tttcgttcca | 1740 |
| ctgagcgtca gaccccgtag aaaagatcaa aggatcttct tgagatcctt tttttctgcg | 1800 |
| cgtaatctgc tgcttgcaaa caaaaaaacc accgctacca gcggtggttt gtttgccgga | 1860 |
| tcaagagcta ccaactcttt ttccgaaggc aactggcttc agcagagcgc agataccaaa | 1920 |
| tactgttctt ctagtgtagc cgtagttagg ccaccacttc aagaactctg tagcaccgcc | 1980 |
| tacatacctc gctctgctaa tcctgttacc agtggctgct gccagtggcg ataagtcgtg | 2040 |
| tcttaccggg ttggactcaa gacgatagtt accggataag gcgcagcggc cgggctgaac | 2100 |
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| ggtaagcggc agggtcggaa caggagagcg cacgaggagc cttccagggg gaaacgcctg | 2280 |
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| ggccttttgc tggccttttg ctacatggtt ctttcctgcg ttatcccctg attctgtgga | 2460 |
| taaccgtatt accgccatgc attagttatt aatagtaatc aattacgggg tcattagttc | 2520 |
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sequence.txt

| | | | | | | | |
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| gacgtatgtt | cccatagtaa | cgccaatagg | gactttccat | tgacgtcaat | gggtggagta | | 3060 |
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| ttttgacctc | catagaagac | accgggaccg | atccagcctc | cgcgccggg | aacggtgcat | | 3540 |
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| agacttaggc | acagcacaat | gccaccacc | accagtgtgc | cgcacaggc | cgtggcggt | | 4140 |
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| cttaaggcag | cggcagaaga | agatgcaggc | agctgagttg | ttgtattctg | ataagagtca | | 4260 |
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| atgggtcttt | tctgcagtca | ccgtccacgc | gttaatacga | ctcactatag | ggagacccaa | | 4440 |
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sequence.txt

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| ccagtgcacc atctggacct cagttcccct tcaaaggggt ggatgaccgt gagtcttggc | 4800 |
| cctctgtgtt ttataatagg acctgccagt gctcaggcaa cttcatgggt ttcaactgcg | 4860 |
| gaaactgtaa gtttggattt gggggcccaa attgtacaga gaagcgagtc ttgattagaa | 4920 |
| gaaacatttt tgatttgagt gtctccgaaa agaataagtt cttttcttac ctcacttttag | 4980 |
| caaaacatac tatcagctca gtctatgtca tccccacagg cacctatggc caaatgaaca | 5040 |
| atgggtcaac acccatgttt aatgatatac acatctacga cctctttgta tggatgcatt | 5100 |
| actatgtgtc aagggaacaca ctgcttgggg gctctgaaat atggaggagc attgattttg | 5160 |
| cccatgaagc accagggttt ctgccttggc acagactttt cttgttattg tgggaacaag | 5220 |
| aaattcgaga actaactggg gatgagaact tcaactgttc atactgggat tggagagatg | 5280 |
| cagaaaactg tgacatttgc acagatgagt acttgggagg tcgtcacct gaaaatccta | 5340 |
| acttactcag ccagcatcc ttcttctcct cctggcagat catttgtagc agatcagaag | 5400 |
| agtataatag ccatcagggt ttatgcatg gaacacctga gggaccacta ttacgtaatc | 5460 |
| ctggaaacca tgacaaagcc aaaaccccca ggctcccatc ttcagcagat gtggaatttt | 5520 |
| gtctgagttt gaccagtat gaatctggat caatggatag aactgccaat ttcagcttta | 5580 |
| gaaacacact ggaaggattt gccagtccac tcacagggat agcagatcct tctcaaagta | 5640 |
| gcatgcacaa tgccttacat atctttatga atggaacaat gtcccaagta cagggatcgg | 5700 |
| ccaacgatcc catttttctt cttcaccatg cttttgtgga cagtattttt gaacaatggc | 5760 |
| tgcaaggca ccgccctctt ttggaagttt acccagaagc caatgcacct atcgccata | 5820 |
| acagagactc ttacatgggt ctttcatac cgctctatag aaatgggtgat ttcttcataa | 5880 |
| catccaagga tctgggatat gactacagct acctccaaga gtcagatcca ggcttttaca | 5940 |
| gaaattatat tgagccttac ttggaacaag ccagtcgtat ctggccatgg cttcttgggg | 6000 |
| cagcactggg gggagctgtt attgctgcag ctctctctgg gcttagcagt aggctatgcc | 6060 |
| ttcagaagaa gaagaagaag aagcaacccc aggaggaaag gcagccactc ctcatggaca | 6120 |

sequence.txt

| | |
|--|------|
| aagacgacta ccacagcttg ctgtatcaga gccatctgtg aacatcctag gaaacagagt | 6180 |
| gggactgaaa gggttttacct cactcgacct atttggtggt gtttctacaa atttaaacta | 6240 |
| gtataaaaca tagaccatag ctgtttggct ttttttcaga cccatgtttt ttcctaagtc | 6300 |
| ctagtttcta agaaatgact gggatttgct aaaatatata tatatatata taaataataa | 6360 |
| cttactaata gctaaataaa atttcctctt acaactaatt gagctgggtt ttatgaatgt | 6420 |
| gtcttaatta tttaaacttg aggcacattt ttgttttcct tacttcattg tggatcccaa | 6480 |
| gccga | 6485 |